

IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) ~~Device~~ A device for recording information on a record carrier, ~~which said device comprises~~ comprising:
- [[-]] recording means ~~(22)~~ for recording marks representing digitally encoded real-time information, ~~in particular~~ video including video information, encoded according to a predefined recording format, ~~;~~
 - [[-]] an input unit ~~(27)~~ for receiving a data stream constituting an enhanced user program, the data stream comprising the real-time information and application data objects, at least one subset of the application data objects constituting data for providing to a user at least one interactive application while rendering the real-time information, ~~;~~
 - [[-]] message means ~~(94)~~ for extracting messages from the data stream, the messages containing the application data objects, ~~;~~
 - [[-]] parsing means ~~(95)~~ for generating application control information, ~~;~~ and
 - [[-]] control means ~~(20)~~ for storing the messages in a message file separate from the real-time information as a series of the messages for the program, ~~and~~ for storing the application control information in a message info file, the application control information including accessing information for accessing the messages in the message file.

2. (Currently Amended) ~~Device~~The device as claimed in claim 1, wherein the parsing means ~~(95) are arranged for including~~includes, for a message, at least one of the following items as accessing information in the message info file:

[[-]] a message number, the message number identifying the message in the series of the messages;

[[-]] a message type indicator;

[[-]] a start location in the message file;

[[-]] length of the message;

[[-]] number of a succeeding message.

3. (Currently Amended) ~~Device~~The device as claimed in claim 1, wherein the parsing means ~~(95) are arranged for including~~includes active period information in the message info file, ~~in particular~~said active period information including a start time and an end time with respect to a presentation time of the program.

4. (Currently Amended) ~~Device~~The device as claimed in claim 1, wherein the message means ~~(94) are arranged for removing~~removes redundant information from the messages extracted from the data stream.

5. (Currently Amended) ~~Device~~The device as claimed in claim 4, wherein the message means ~~(94) are arranged for removing~~removes.

as the redundant information, header information of packets, in particular including headers of transport stream packets or sections headers as used in compressed video data transmission (MPEG2), or download-data-block headers as used in multimedia data (MHP).

6. (Currently Amended) ~~Device~~ The device as claimed in claim 4, wherein the message means ~~(94) are arranged for removing~~ removes, as the redundant information, messages that are repeatedly transmitted, ~~in particular including messages repeatedly transmitted~~ in a data carousel.

7. (Currently Amended) ~~Device~~ A device for reading information from a record carrier for rendering an enhanced user program, ~~which said device comprises comprising:~~
_____ reading means ~~(30)~~ for reading marks representing digitally encoded real-time information, ~~in particular video including video information, encoded according to a predefined recording format,~~ and
_____ control means ~~(20, 32)~~ for providing to a user at least one interactive application based on at least one subset of application data objects while rendering the real-time information, ~~by said control means~~ retrieving application control information from a message info file, and ~~by~~ retrieving messages from a message file based on accessing information included in the application control information, the messages containing the application data

objects, and the message file ~~being~~ having been stored separate from the real-time information.

8. (Currently Amended) ~~Record~~ A record carrier carrying information for constituting an enhanced user program, ~~on which said~~ record carrier having marks in a track (9) ~~represent~~ representing:
[[-]] digitally encoded real-time information, ~~in particular~~ video including video information, encoded according to a predefined recording format,

[[-]] a message file (102) ~~separate~~ from the real-time information, the message file comprising messages containing application data objects, at least one subset of the application data objects constituting data for providing to a user at least one interactive application while rendering the real-time information, and

[[-]] a message info file (101) ~~containing~~ application control information including accessing information for accessing the messages in the message file.

9. (Currently Amended) ~~Record~~ The record carrier as claimed in claim 8, wherein the message info file (101) ~~contains~~ as the accessing information for a message, at least one of the following items:

[[-]] a message number, the message number identifying the message in the series of the messages;

[[-]] a message type indicator;

[[-]] a start location in the message file;
[[-]] length of the message;
[[-]] start of an active period;
[[-]] end of the active period;
[[-]] number of succeeding message.

10. (Currently Amended) ~~Method~~ A method of recording information on a record carrier, ~~which said method comprises~~ comprising the steps of:

[[-]] recording digitally encoded real-time information, ~~in particular video including video information, encoded according to a predefined recording format,~~

[[-]] receiving a data stream constituting an enhanced user program, the data stream comprising the real-time information and application data objects, at least one subset of the application data objects constituting data for providing to a user at least one interactive application while rendering the real-time information, ~~and~~

[[-]] extracting messages from the data stream, the messages containing the application data objects,

[[-]] generating application control information, ~~and~~

[[-]] storing the messages in a message file separate from the real-time information as a series of the messages for the program, and storing the application control information in a message info file, the application control information including accessing information for accessing the messages in the message file.

11. (Currently Amended) ~~Computer~~ A computer-readable medium
having a computer program-product stored thereon for recording
information, ~~which said computer program is-being~~ operative to
cause a processor to perform the method of recording as claimed in
claim 10.